



June 2008

DEPARTMENT OF EDUCATION
2007–2008 School Year Reports

Dear School Board Members and School Personnel:

The Maine Educational Assessment (MEA) is the State's measure of student progress in achieving the State standards known as *Learning Results*, adopted by the Maine Legislature in 1997. These *Learning Results* established goals for what all students should know and be able to do at certain times in their school careers and are the basis for Grade Level/Span Expectations, which describe the assessment standards for each grade. The MEA is administered to students in all grades 3 through 8 to meet state assessment requirements and the requirements of the federal *No Child Left Behind Act*.

The 2007-2008 MEA summary reports contain the results of student achievement in reading and mathematics at all grades, science and technology at grades 4 and 8, and writing at grade 5 based on achievement standards set in 2006 and disaggregated by student and school characteristics. This report, together with MEA individual student and subject-specific class analysis reports, provides support for use in program evaluation and planning.

MEA results reflect scores based on test questions that are taken in common by the approximately 15,000 students in each grade level. Students' scores in each content area are based on answers to a combination of multiple-choice questions and questions that require students to construct an answer. The grade 5 writing reports provide information on a student's ability to respond to a prompt measuring narrative writing. More information about the design of the MEA is available at www.maine.gov/education/mea/index.htm.

I look forward to working with you in support of our continued efforts to improve the quality and effectiveness of the instructional opportunities designed to help all students achieve the high standards of the *Learning Results* and demonstrate that achievement through performance on the Maine Educational Assessment.

Sincerely,

Susan A. Gendron
Commissioner of Education



School Report Grade 4

Test Date: March 2008
Code: 12541749
SAU: MSAD 60
School: North Berwick Elementary Sch

Contents of the Report

The report is divided into two main sections including a section describing the students tested and a separate section for the results in each content area.

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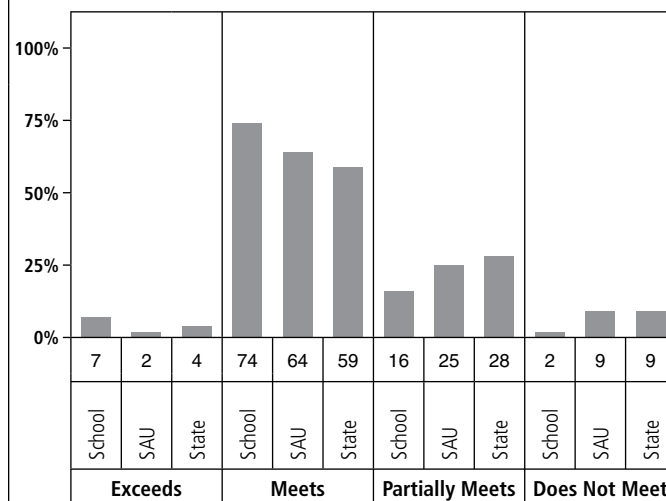
SUMMARY OF SCORES

Test Date: March 2008
Grade: 4
SAU: MSAD 60
School: North Berwick Elementary Sch

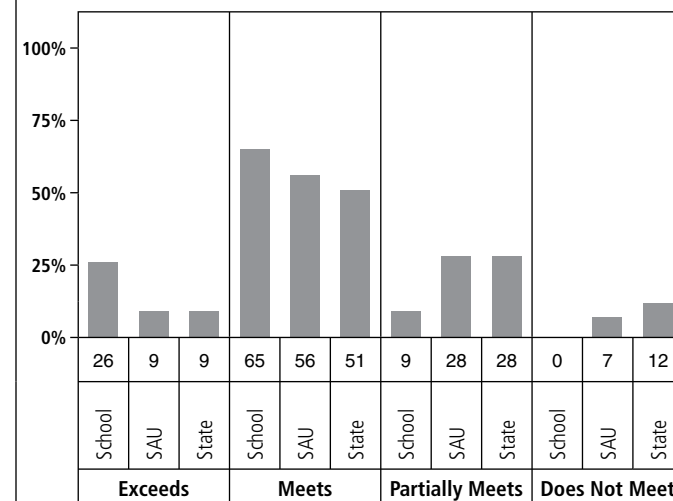
Summary of School, SAU, and State Scores

Year	Average Scaled Score		
	School	SAU	State
ELA – Reading			
2005–2006	448	445	444
2006–2007	447	446	445
2007–2008	449	444	445
Cum. Avg. *	448	445	445
Mathematics			
2005–2006	451	446	444
2006–2007	447	445	445
2007–2008	456	447	445
Cum. Avg. *	451	446	445
Science & Technology			
2005–2006	444	442	444
2006–2007	444	442	444
2007–2008	445	442	444
Cum. Avg. *	444	442	444

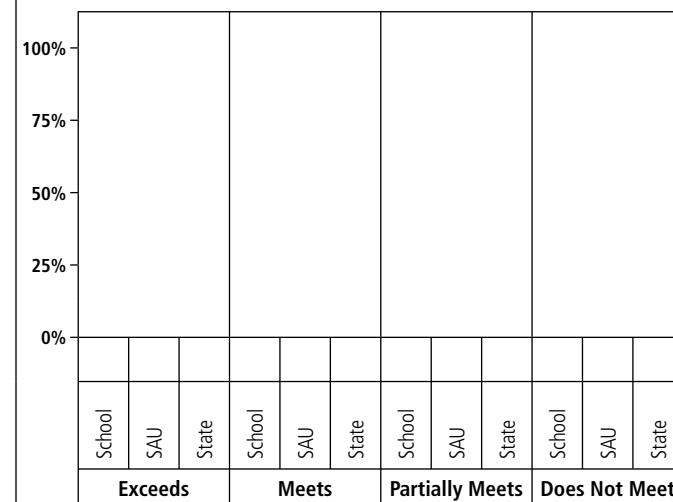
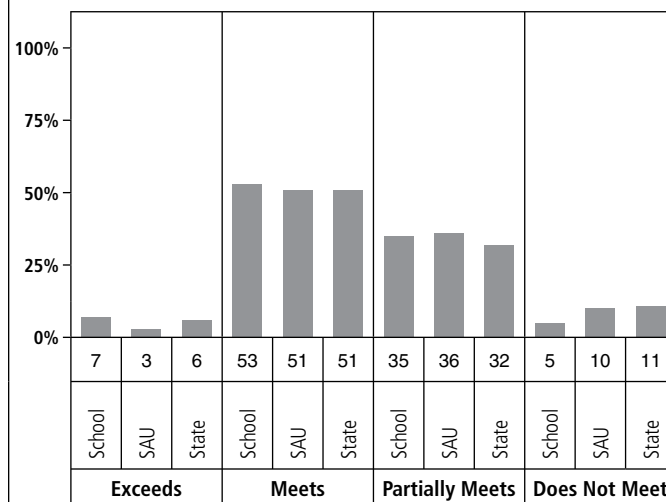
ELA – READING



MATHEMATICS



SCIENCE AND TECHNOLOGY



*Cumulative averages are weighted, i.e., the scaled scores are averaged proportionally based on the numbers of students in each year.

SUMMARY OF STUDENT PARTICIPATION

Test Date: March 2008
 Grade: 4
 SAU: MSAD 60
 School: North Berwick Elementary Sch

CATEGORY OF PARTICIPATION	Enrollment ¹ during testing window						CONTENT AREA PARTICIPATION ²																							
							ELA-Reading						Mathematics						Science and Technology											
	School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Total number of students	43	100	223	100	14207	100	43	100	219	98	14181	100	43	100	219	98	14123	100	43	100	219	98	14115	99						
Ethnicity African American/Black	2	5	3	1	390	3	2	100	3	100	388	99	2	100	3	100	388	99	2	100	3	100	386	99						
American Indian or Native Alaskan	0	0	0	0	101	1	0	0	0	0	101	100	0	0	0	0	101	100	0	0	0	0	101	100						
Asian or Pacific Islander	0	0	3	1	263	2	0	0	3	100	259	98	0	0	3	100	262	100	0	0	3	100	262	100						
Hispanic	1	2	4	2	170	1	1	100	4	100	168	99	1	100	4	100	166	98	1	100	4	100	166	98						
Caucasian/White	40	93	213	96	13282	93	40	100	209	98	13264	100	40	100	209	98	13205	100	40	100	209	98	13199	99						
Not Reported	0	0	0	0	1	0	0	0	0	0	1	100	0	0	0	0	1	100	0	0	0	0	1	100						
Identified disability	8	19	38	17	2524	18	8	100	38	100	2514	100	8	100	38	100	2498	99	8	100	38	100	2494	99						
Current LEP	0	0	1	0	385	3	0	0	1	100	377	98	0	0	1	100	383	99	0	0	1	100	380	99						
Economically disadvantaged	8	19	78	35	5587	39	8	100	77	99	5569	100	8	100	77	99	5538	99	8	100	77	99	5534	99						
Migrant	0	0	0	0	5	0	0	0	0	0	5	100	0	0	0	0	5	100	0	0	0	0	5	100						

MODE OF PARTICIPATION ³	ELA-Reading						Mathematics						Science and Technology											
	School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Participation without accommodations	20	47	132	59	10755	76	20	47	132	59	10730	76	20	47	132	59	10776	76						
Identified disability (PET/IEP)	0	0	5	4	375	3	0	0	5	4	374	3	0	0	5	4	384	4						
LEP	0	0	1	1	148	1	0	0	1	1	148	1	0	0	1	1	150	1						
504 plan	0	0	0	0	114	1	0	0	0	0	114	1	0	0	0	0	115	1						
Participation with accommodations	23	53	86	39	3298	23	23	53	86	39	3267	23	23	53	86	39	3215	23						
Identified disability (PET/IEP)	8	35	32	37	2013	61	8	35	32	37	1998	61	8	35	32	37	1986	62						
LEP	0	0	0	0	225	7	0	0	0	0	233	7	0	0	0	0	229	7						
504 plan	0	0	0	0	69	2	0	0	0	0	68	2	0	0	0	0	67	2						
Other	15	65	54	63	1046	32	15	65	54	63	1023	31	15	65	54	63	987	31						
Participation through alternate assessment (PAAP)	0	0	1	0	126	1	0	0	1	0	126	1	0	0	1	0	124	1						
Identified disability (PET/IEP)	0	0	1	100	126	100	0	0	1	100	126	100	0	0	1	100	124	100						
LEP	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	1	1						
504 plan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Approved non-participation in reading – 1st year LEP	0	0	0	0	2	0																		
Approved non-participation – special consideration	0	0	0	0	15	0	0	0	0	0	16	0	0	0	0	0	12	0						
Non-participation – other	0	0	4	2	11	0	0	0	4	2	68	0	0	0	4	2	80	1						

1 Percents are the percentage of students enrolled in each participation category.

2 Percents are the percentage of students, including those who participated through alternate assessment (PAAP), who participated in the content area.

3 Percents are the percentage of students in each content area by mode.

ELA–READING RESULTS

Test Date: March 2008
Grade: 4
SAU: MSAD 60
School: North Berwick Elementary Sch

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
Exceeds the Standards – The student’s work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing in-depth inferences, analyzing texts for subtle clues, synthesizing information across texts, and using his/her knowledge of text features and literary devices to make deeper connections within or across texts to increase comprehension. (scaled score 461–480)	2005-2006	3	6	8	4	601	4
	2006-2007	3	6	8	4	507	4
	2007-2008	3	7	4	2	559	4
	Cum. Total*	9	6	20	3	1667	4
Meets the Standards – The student’s work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing inferences, summarizing main ideas and providing supporting details, connecting ideas within and across texts, and using his/her knowledge of text features and literary devices to increase comprehension. (scaled score 441–460)	2005-2006	36	73	142	62	7910	57
	2006-2007	32	60	145	67	8749	63
	2007-2008	32	74	140	64	8308	59
	Cum. Total*	100	69	427	64	24967	60
Partially Meets the Standards – The student’s work demonstrates an inconsistent ability to read and interpret literary and informational texts appropriate for the grade level. The student’s ability to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, and use his/her knowledge of text features and literary devices varies depending on the texts. (scaled score 431–440)	2005-2006	9	18	57	25	3970	29
	2006-2007	17	32	49	23	3467	25
	2007-2008	7	16	54	25	3922	28
	Cum. Total*	33	23	160	24	11359	27
Does Not Meet the Standards – The student’s work demonstrates a limited ability to read and interpret literary and informational texts appropriate for the grade level. The student’s responses are often vague or incorrect leaving the impression that the student found it difficult to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, or use his/her knowledge of text features and literary devices to support comprehension. (scaled score 400–430)	2005-2006	1	2	21	9	1421	10
	2006-2007	1	2	15	7	1165	8
	2007-2008	1	2	20	9	1264	9
	Cum. Total*	3	2	56	8	3850	9

Learning Results Content Standard Cluster	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Total Reading Cluster	48	100	33.1	69.0	29.5	61.5	29.7	61.9
Literary Text	24	50	17.2	71.7	15.4	64.2	15.5	64.6
Informational Text	24	50	15.9	66.3	14.1	58.8	14.2	59.2

The Maine *Learning Results* reading cluster includes Content Standards A (Process of Reading), B (Literature and Culture), and D (Informational Texts). The MEA assesses students’ reading skills based on questions related to two types of reading passages: literary and informational. Passages include both long and short texts, selected from developmentally appropriate works. Items on the MEA measure Grade Level Expectations, based on Maine’s 1997 *Learning Results*, which can be found at <http://www.maine.gov/education/lsalt/gles.htm>.

ELA-READING RESULTS

(CONTINUED)

Test Date: March 2008
 Grade: 4
 SAU: MSAD 60
 School: North Berwick Elementary Sch

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
All Students	43	3	7	32	74	7	16	1	2	449	218	2	64	25	9	444	14053	4	59	28	9	445
Ethnicity																						
African American/Black	2										3						384	1	36	35	28	438
American Indian or Native Alaskan	0										0						101	1	46	44	10	442
Asian or Pacific Islander	0										3						259	6	61	22	11	445
Hispanic	1										4						164	0	45	38	16	440
Caucasian/White	40	3	8	29	73	7	18	1	3	448	208	2	64	25	9	444	13144	4	60	28	8	445
Not Reported	0										0						1					
Identified disability																						
Yes	8	0	0	6	75	2	25	0	0	444	37	0	38	32	30	438	2388	0	29	44	26	437
No	35	3	9	26	74	5	14	1	3	450	181	2	70	23	5	445	11665	5	65	25	6	446
Current LEP																						
Yes	0										1						373	1	32	35	32	436
No	43	3	7	32	74	7	16	1	2	449	217	2	64	25	9	444	13680	4	60	28	8	445
Economically disadvantaged																						
Yes	8	0	0	5	63	3	38	0	0	445	77	0	47	36	17	441	5502	1	47	37	14	441
No	35	3	9	27	77	4	11	1	3	450	141	3	74	18	5	446	8551	6	67	22	5	447
Migrant																						
Yes	0										0						5	0	40	60	0	445
No	43	3	7	32	74	7	16	1	2	449	218	2	64	25	9	444	14048	4	59	28	9	445
Gender																						
Female	21	2	10	14	67	4	19	1	5	448	113	3	65	24	9	444	6959	5	61	26	8	446
Male	22	1	5	18	82	3	14	0	0	449	105	1	64	26	10	444	7093	3	57	30	10	444
Not Reported	0										0						1					
Title 1A targeted program																						
Yes	6	0	0	3	50	3	50	0	0	441	26	0	35	38	27	438	1890	0	37	46	17	439
No	37	3	8	29	78	4	11	1	3	450	192	2	68	23	7	445	12163	5	63	25	8	446
Gifted/talented program																						
Yes	0										0						266	21	74	4	0	456
No	43	3	7	32	74	7	16	1	2	449	218	2	64	25	9	444	13787	4	59	28	9	445

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number

ELA–READING RESULTS

(QUESTIONNAIRE ITEMS)

Test Date: March 2008
Grade: 4
SAU: MSAD 60
School: North Berwick Elementary Sch

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
How much homework do you do on school nights?																						
A. none	2	0	0	1	100	0	0	0	0	446	6	0	42	42	17	439	5	1	42	36	21	440
B. less than one hour	84	3	8	27	75	5	14	1	3	449	73	2	68	21	9	444	74	4	62	27	7	445
C. one to two hours	14	0	0	4	67	2	33	0	0	447	21	2	57	33	9	444	18	5	59	29	7	446
D. more than two hours	0										0						2	3	32	34	31	438
How well do the questions that you have just been given on this MEA test match what you have learned in school about reading?																						
A. The questions on the test match what I have learned in reading class.	30	2	15	10	77	1	8	0	0	450	25	5	62	22	11	445	30	6	63	24	7	446
B. They match some of what I have learned.	44	1	5	17	89	1	5	0	0	451	54	1	73	21	6	445	52	4	63	27	6	446
C. They match just a little of what I have learned.	19	0	0	4	50	3	38	1	13	442	17	0	50	39	11	441	12	2	46	37	15	441
D. There is no match.	7	0	0	1	33	2	67	0	0	441	5	0	30	40	30	437	5	0	33	40	26	437
Which of the following best describes how you rate yourself as a student in reading?																						
A. very good	30	1	8	11	85	1	8	0	0	450	33	1	75	19	4	446	35	7	66	20	6	448
B. good	58	2	8	17	68	6	24	0	0	448	53	3	60	30	8	444	51	3	60	29	7	445
C. fair	12	0	0	4	80	0	0	1	20	448	13	0	54	21	25	441	12	1	44	40	16	440
D. poor	0										1	0	50	0	50	440	2	0	23	47	30	436
How hard was the reading part of this test?																						
A. harder than my regular schoolwork	30	1	8	9	69	3	23	0	0	447	17	3	51	35	11	442	19	2	46	34	17	442
B. about the same as my regular schoolwork	56	2	8	18	75	3	13	1	4	450	62	2	70	21	7	445	62	5	64	26	5	446
C. easier than my regular schoolwork	14	0	0	5	83	1	17	0	0	446	21	0	59	26	15	441	18	3	58	29	10	444
How hard were the reading passages on this test?																						
A. Most of the passages were more difficult than what I usually read.	7	0	0	1	33	2	67	0	0	440	13	0	39	39	21	439	14	0	32	46	22	438
B. Most of the passages were about the same as what I usually read.	52	3	14	16	73	2	9	1	5	449	51	3	67	23	7	445	52	3	62	28	7	445
C. Most of the passages were easier than what I usually read.	40	0	0	14	82	3	18	0	0	450	36	1	69	22	8	445	33	7	68	20	5	448
How much time do you spend reading at home each day?																						
A. more than one hour	16	0	0	5	71	2	29	0	0	449	16	0	69	20	11	444	18	7	64	22	7	447
B. 20 minutes to an hour	58	2	8	21	84	2	8	0	0	450	65	2	65	24	9	444	55	4	64	26	6	446
C. less than 20 minutes	16	1	14	4	57	2	29	0	0	449	11	4	70	22	4	446	14	2	53	33	12	443
D. I rarely read at home.	9	0	0	2	50	1	25	1	25	441	8	0	44	39	17	440	13	1	44	39	16	441
How many pages do you read in school and to complete homework assignments?																						
A. five or fewer pages	21	0	0	8	89	1	11	0	0	450	24	0	68	18	14	443	23	3	50	34	13	442
B. six to ten pages	31	0	0	10	77	2	15	1	8	444	26	0	67	22	11	444	25	3	60	29	8	444
C. eleven or more pages	48	3	15	13	65	4	20	0	0	451	50	3	63	28	7	444	52	5	64	24	6	446
Optional school/SAU question																						
A.	100	0	0	1	100	0	0	0	0	448	33	0	67	33	0	443						
B.	0										11	0	0	100	0	436						
C.	0										44	0	50	50	0	441						
D.	0										11	0	100	0	0	442						

MATHEMATICS RESULTS

Test Date: March 2008
Grade: 4
SAU: MSAD 60
School: North Berwick Elementary Sch

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
Exceeds the Standards – The student’s work demonstrates in-depth understanding of essential concepts in mathematics, including the ability to make multiple connections among central ideas. The student’s responses demonstrate the ability to synthesize information; analyze and solve difficult problems, including developing and implementing strategies, efficiently and accurately performing procedures, and recording and justifying solutions; and explain complex concepts. (scaled score 461–480)	2005-2006	11	22	24	11	1294	9
	2006-2007	5	9	11	5	1054	8
	2007-2008	11	26	20	9	1321	9
	Cum. Total*	27	19	55	8	3669	9
Meets the Standards – The student’s work demonstrates a general understanding of essential concepts in mathematics, including the ability to make connections among central ideas. The student’s responses demonstrate the ability to analyze and solve problems including developing and implementing strategies, to perform procedures, and to record and explain solutions and concepts. The student’s work may contain minor errors. (scaled score 441–460)	2005-2006	29	59	131	57	7000	50
	2006-2007	29	55	125	58	7394	53
	2007-2008	28	65	122	56	7079	51
	Cum. Total*	86	59	378	57	21473	51
Partially Meets the Standards – The student’s work demonstrates incomplete understanding of essential concepts in mathematics and inconsistent connections among central ideas. The student’s responses demonstrate some ability to analyze and solve problems, and explain concepts. Problem solving strategies may be flawed, procedures performed inaccurately, methods not recorded and/or problems not completed. (scaled score 429–440)	2005-2006	8	16	57	25	3784	27
	2006-2007	16	30	59	27	3729	27
	2007-2008	4	9	60	28	3955	28
	Cum. Total*	28	19	176	27	11468	27
Does Not Meet the Standards – The student’s work demonstrates limited understanding of essential concepts in mathematics and infrequent or inaccurate connections among central ideas. The student’s responses demonstrate minimal ability to solve problems and explain concepts. Problem solving strategies and procedures are often flawed or inappropriate and there may be many omissions. (scaled score 400–428)	2005-2006	1	2	16	7	1894	14
	2006-2007	3	6	22	10	1735	12
	2007-2008	0	0	16	7	1642	12
	Cum. Total*	4	3	54	8	5271	13

Learning Results Content Standard Clusters	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Cluster 1: Numbers and Operations	15	31	12.2	81.3	10.1	67.3	9.5	63.3
Cluster 2: Shape and Size	14	29	10.3	73.6	9.1	65.0	9.1	65.0
Cluster 3: Mathematical Decision Making	5	10	4.1	82.0	3.6	72.0	3.4	68.0
Cluster 4: Patterns	14	29	11.3	80.7	9.8	70.0	9.7	69.3

- Cluster 1: Numbers and Operations**
A. Numbers and Number Sense
B. Computation
I. Discrete Mathematics (grades 3 and 4 only)
- Cluster 2: Shape and Size**
E. Geometry
F. Measurement
- Cluster 3: Mathematical Decision Making**
C. Data Analysis and Statistics
D. Probability
- Cluster 4: Patterns**
G. Patterns, Relations, and Functions
H. Algebra Concepts
K. Mathematical Communication

Each content standard in the clusters above is defined in Maine’s 1997 *Learning Results*, which are the basis for Grade Level Expectations. Each item on the MEA measures a grade level expectation, which can be found at <http://www.maine.gov/education/lsalt/gles.htm>.

MATHEMATICS RESULTS

(CONTINUED)

Test Date: March 2008
 Grade: 4
 SAU: MSAD 60
 School: North Berwick Elementary Sch

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
All Students	43	11	26	28	65	4	9	0	0	456	218	9	56	28	7	447	13997	9	51	28	12	445
Ethnicity																						
African American/Black	2										3						386	4	26	34	36	434
American Indian or Native Alaskan	0										0						101	3	46	41	11	442
Asian or Pacific Islander	0										3						262	14	51	23	12	447
Hispanic	1										4						162	4	41	34	21	440
Caucasian/White	40	9	23	27	68	4	10	0	0	455	208	9	56	28	7	447	13085	10	51	28	11	446
Not Reported	0										0						1					
Identified disability																						
Yes	8	0	0	6	75	2	25	0	0	445	37	0	43	41	16	439	2372	3	31	36	30	436
No	35	11	31	22	63	2	6	0	0	459	181	11	59	25	6	449	11625	11	54	27	8	447
Current LEP																						
Yes	0										1						381	4	33	28	35	435
No	43	11	26	28	65	4	9	0	0	456	217	9	56	28	7	447	13616	10	51	28	11	445
Economically disadvantaged																						
Yes	8	2	25	5	63	1	13	0	0	455	77	5	49	31	14	443	5472	5	41	35	19	440
No	35	9	26	23	66	3	9	0	0	457	141	11	60	26	4	449	8525	13	56	24	7	448
Migrant																						
Yes	0										0						5	0	80	20	0	448
No	43	11	26	28	65	4	9	0	0	456	218	9	56	28	7	447	13992	9	51	28	12	445
Gender																						
Female	21	4	19	14	67	3	14	0	0	454	113	8	49	32	12	445	6933	9	50	29	12	445
Male	22	7	32	14	64	1	5	0	0	458	105	10	64	23	3	449	7063	10	51	27	11	446
Not Reported	0										0						1					
Title 1A targeted program																						
Yes	6	1	17	4	67	1	17	0	0	449	26	4	46	31	19	441	1890	2	34	41	23	438
No	37	10	27	24	65	3	8	0	0	457	192	10	57	27	6	448	12107	11	53	26	10	446
Gifted/talented program																						
Yes	0										0						266	45	49	5	0	461
No	43	11	26	28	65	4	9	0	0	456	218	9	56	28	7	447	13731	9	51	29	12	445

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number



MATHEMATICS RESULTS

(QUESTIONNAIRE ITEMS)

Test Date: March 2008
Grade: 4
SAU: MSAD 60
School: North Berwick Elementary Sch

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
How much homework do you do on school nights?																						
A. none	2	0	0	0	0	1	100	0	0	438	6	0	25	50	25	436	5	6	34	33	27	438
B. less than one hour	84	10	28	23	64	3	8	0	0	457	73	9	59	26	6	448	74	10	52	28	10	446
C. one to two hours	14	1	17	5	83	0	0	0	0	456	21	13	52	28	7	448	18	10	52	28	10	446
D. more than two hours	0										0						2	5	33	28	34	436
How well do the questions that you have just been given on this MEA test match what you have learned in school about mathematics?																						
A. The questions on the test match what I have learned in mathematics class.	42	7	39	10	56	1	6	0	0	460	40	13	64	20	4	450	38	13	56	23	8	448
B. They match some of what I have learned.	37	4	25	11	69	1	6	0	0	458	45	8	54	31	6	447	48	8	52	29	10	445
C. They match just a little of what I have learned.	12	0	0	3	60	2	40	0	0	442	11	4	38	38	21	440	10	4	35	39	22	439
D. There is no match.	9	0	0	4	100	0	0	0	0	452	5	0	70	20	10	446	4	2	25	33	40	433
Which of the following best describes how you rate yourself as a student in mathematics?																						
A. very good	30	6	46	6	46	1	8	0	0	460	29	18	56	21	5	452	35	16	55	20	8	449
B. good	47	5	25	14	70	1	5	0	0	457	53	8	58	27	7	446	48	7	52	31	11	445
C. fair	21	0	0	7	78	2	22	0	0	450	16	0	49	40	11	442	14	3	41	38	18	440
D. poor	2	0	0	1	100	0	0	0	0	444	2	0	60	40	0	442	3	1	29	36	34	435
How hard was the mathematics part of this test?																						
A. harder than my regular schoolwork	23	1	10	8	80	1	10	0	0	452	18	10	48	33	10	446	15	4	38	33	25	439
B. about the same as my regular schoolwork	40	4	24	11	65	2	12	0	0	457	63	5	59	29	7	446	64	10	54	28	9	446
C. easier than my regular schoolwork	37	6	38	9	56	1	6	0	0	459	19	22	56	17	5	452	21	13	52	24	11	447
How often do you use hands-on materials in mathematics class?																						
A. almost every day	23	2	20	6	60	2	20	0	0	453	33	15	53	24	8	448	23	8	47	29	16	443
B. two or three days a week	42	5	28	11	61	2	11	0	0	456	40	6	59	31	5	446	36	11	54	27	9	447
C. two or three times each month	19	1	13	7	88	0	0	0	0	457	18	3	66	26	5	447	25	10	53	27	10	446
D. never or almost never	16	3	43	4	57	0	0	0	0	462	9	15	40	30	15	447	16	9	46	32	13	444
How often do you use calculators in mathematics class?																						
A. almost every day	0										1	0	33	67	0	443	5	3	30	33	33	436
B. two or three days a week	23	3	30	5	50	2	20	0	0	456	24	9	53	26	11	446	19	8	50	30	12	445
C. two or three times each month	35	3	20	12	80	0	0	0	0	456	43	10	56	27	7	447	38	11	55	26	8	447
D. never or almost never	42	5	28	11	61	2	11	0	0	457	31	9	60	28	3	448	38	9	50	29	12	445
On average, how many minutes a day do you spend working on mathematics in class?																						
A. less than 30 minutes	9	1	25	1	25	2	50	0	0	448	6	7	36	43	14	442	8	3	33	38	25	438
B. 30–45 minutes	28	3	25	8	67	1	8	0	0	456	40	8	41	40	12	444	27	6	48	33	13	443
C. 45–60 minutes	33	2	14	11	79	1	7	0	0	454	35	7	75	16	3	449	38	11	54	26	9	447
D. more than 60 minutes	30	5	38	8	62	0	0	0	0	461	19	17	62	19	2	452	26	13	55	23	9	448
Optional school/SAU question																						
A.	100	0	0	0	0	1	100	0	0	432	33	0	0	67	33	432						
B.	0										11	0	0	0	100	414						
C.	0										44	0	25	75	0	440						
D.	0										11	0	100	0	0	456						

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards
N = Number

SCIENCE AND TECHNOLOGY RESULTS

Test Date: March 2008
Grade: 4
SAU: MSAD 60
School: North Berwick Elementary Sch

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
Exceeds the Standards – The student’s work demonstrates in-depth understanding of essential concepts in science, including the ability to make multiple connections among central ideas. The student’s responses demonstrate the ability to synthesize information, analyze and solve difficult problems using the processes of scientific inquiry, and explain complex concepts using evidence and proper terminology to support and communicate logical conclusions. (scaled score 461–480)	2005-2006	1	2	9	4	751	5
	2006-2007	5	9	9	4	963	7
	2007-2008	3	7	6	3	882	6
	Cum. Total*	9	6	24	4	2596	6
Meets the Standards – The student’s work demonstrates a general understanding of essential concepts in science, including the ability to make connections among central ideas. The student’s responses demonstrate the ability to analyze and solve routine problems using the processes of scientific inquiry and explain central concepts with sufficient clarity and accuracy to demonstrate general understanding. (scaled score 441–460)	2005-2006	26	53	100	44	7251	52
	2006-2007	19	36	97	45	6824	49
	2007-2008	23	53	112	51	7130	51
	Cum. Total*	68	47	309	47	21205	51
Partially Meets the Standards – The student’s work demonstrates incomplete understanding of essential concepts in science and inconsistent connections among central ideas. The student’s responses demonstrate some ability to analyze and solve problems using scientific inquiry but the quality of responses is inconsistent. Explanation of concepts may be incomplete or unclear. (scaled score 429–440)	2005-2006	17	35	93	41	4514	32
	2006-2007	23	43	76	35	4382	32
	2007-2008	15	35	78	36	4433	32
	Cum. Total*	55	38	247	37	13329	32
Does Not Meet the Standards – The student’s work demonstrates limited understanding of essential concepts in science and infrequent or inaccurate connections among central ideas. The student’s responses demonstrate minimal ability to solve problems and use the skills of scientific inquiry. There are many inaccuracies and explanations are illogical, incomplete, or missing. (scaled score 400–428)	2005-2006	5	10	26	11	1458	10
	2006-2007	6	11	35	16	1735	12
	2007-2008	2	5	22	10	1546	11
	Cum. Total*	13	9	83	13	4739	11

Learning Results Content Standard Clusters	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Cluster 1: Life Sciences	12	25	8.1	67.5	7.6	63.3	8.0	66.7
Cluster 2: Physical Sciences	12	25	7.1	59.2	6.7	55.8	7.2	60.0
Cluster 3: Earth and Space Sciences	12	25	7.6	63.3	7.4	61.7	7.4	61.7
Cluster 4: Nature and Implications of Science	12	25	8.3	69.2	7.6	63.3	7.6	63.3

Cluster 1: Life Sciences

- A. Classifying Life Forms
- B. Ecology
- C. Cells

Cluster 2: Physical Sciences

- E. Structure of Matter
- H. Energy
- I. Motion

Cluster 3: Earth and Space Sciences

- D. Continuity and Change
- F. The Earth
- G. The Universe

Cluster 4: Nature and Implications of Science

- J. Inquiry and Problem Solving
- K. Scientific Reasoning
- L. Communication
- M. Implications of Science & Technology

Each content standard in the clusters shown is defined in Maine’s 1997 *Learning Results*, which are the basis for science and technology Grade Span Expectations. Each item on the MEA measures a grade span expectation, which can be found at <http://www.maine.gov/education/lslat/gles.htm>.

SCIENCE AND TECHNOLOGY RESULTS

(CONTINUED)

Test Date: March 2008
Grade: 4
SAU: MSAD 60
School: North Berwick Elementary Sch

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
All Students	43	3	7	23	53	15	35	2	5	445	218	3	51	36	10	442	13991	6	51	32	11	444
Ethnicity																						
African American/Black	2										3						385	2	27	35	36	434
American Indian or Native Alaskan	0										0						101	3	44	44	10	441
Asian or Pacific Islander	0										3						262	5	52	28	14	443
Hispanic	1										4						162	2	38	39	21	439
Caucasian/White	40	3	8	20	50	15	38	2	5	445	208	3	50	37	10	442	13080	7	52	31	10	444
Not Reported	0										0						1					
Identified disability																						
Yes	8	0	0	2	25	4	50	2	25	437	37	3	32	41	24	436	2370	2	32	41	25	437
No	35	3	9	21	60	11	31	0	0	447	181	3	55	35	7	444	11621	7	55	30	8	445
Current LEP																						
Yes	0										1						379	1	25	35	39	433
No	43	3	7	23	53	15	35	2	5	445	217	3	51	36	10	442	13612	6	52	32	10	444
Economically disadvantaged																						
Yes	8	0	0	4	50	4	50	0	0	441	77	0	47	38	16	440	5470	3	41	39	18	440
No	35	3	9	19	54	11	31	2	6	446	141	4	54	35	7	444	8521	9	57	27	7	446
Migrant																						
Yes	0										0						5	20	20	40	20	443
No	43	3	7	23	53	15	35	2	5	445	218	3	51	36	10	442	13986	6	51	32	11	444
Gender																						
Female	21	1	5	9	43	10	48	1	5	443	113	3	44	41	12	441	6929	6	49	33	12	443
Male	22	2	9	14	64	5	23	1	5	448	105	3	59	30	8	444	7061	7	53	30	10	444
Not Reported	0										0						1					
Title 1A targeted program																						
Yes	6	0	0	2	33	3	50	1	17	438	26	0	27	42	31	434	1888	1	32	44	23	437
No	37	3	8	21	57	12	32	1	3	446	192	3	55	35	7	443	12103	7	54	30	9	445
Gifted/talented program																						
Yes	0										0						266	30	65	5	1	457
No	43	3	7	23	53	15	35	2	5	445	218	3	51	36	10	442	13725	6	51	32	11	444

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NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number

SCIENCE AND TECHNOLOGY RESULTS

(QUESTIONNAIRE ITEMS)

Test Date: March 2008
Grade: 4
SAU: MSAD 60
School: North Berwick Elementary Sch

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
How much homework do you do on school nights?																						
A. none	2	0	0	1	100	0	0	0	0	442	6	0	67	17	17	441	5	4	37	36	22	439
B. less than one hour	84	3	8	19	53	13	36	1	3	446	73	4	52	34	10	443	74	6	53	31	10	444
C. one to two hours	14	0	0	3	50	2	33	1	17	440	21	0	46	46	9	441	18	7	52	32	8	445
D. more than two hours	0										0						2	4	31	33	32	437
How well do the questions that you have just been given on this MEA test match what you have learned in school about science?																						
A. The questions on the test match what I have learned in science class.	12	2	40	3	60	0	0	0	0	455	16	9	66	17	9	446	24	9	53	28	10	446
B. They match some of what I have learned.	42	1	6	11	61	6	33	0	0	446	51	2	53	35	10	442	49	6	54	31	9	445
C. They match just a little of what I have learned.	30	0	0	7	54	6	46	0	0	445	26	0	46	45	9	441	21	4	47	36	13	442
D. There is no match.	16	0	0	2	29	3	43	2	29	438	7	6	31	44	19	441	6	2	35	37	25	438
Which of the following best describes how you rate yourself as a student in science?																						
A. very good	14	0	0	3	50	3	50	0	0	443	22	4	47	32	17	441	25	9	53	27	10	446
B. good	56	3	13	13	54	8	33	0	0	448	54	3	54	37	6	443	54	6	55	30	9	445
C. fair	23	0	0	5	50	4	40	1	10	441	20	2	47	40	12	441	19	3	43	40	15	441
D. poor	7	0	0	2	67	0	0	1	33	442	4	0	67	11	22	444	3	2	28	42	29	435
How difficult was the science part of this test?																						
A. harder than my regular schoolwork	34	1	7	7	50	5	36	1	7	445	30	2	56	31	11	443	22	5	45	35	15	442
B. about the same as my regular schoolwork	46	2	11	10	53	6	32	1	5	447	49	3	47	42	8	442	62	7	53	31	9	445
C. easier than my regular schoolwork	20	0	0	5	63	3	38	0	0	443	21	4	53	29	13	443	16	7	52	28	13	444
How often do you have science classes?																						
A. every day	0										9	0	45	45	10	441	24	7	48	33	12	444
B. a few times a week	98	3	7	22	52	15	36	2	5	445	57	4	52	34	10	443	53	7	54	31	9	445
C. once a week	2	0	0	1	100	0	0	0	0	450	9	0	50	50	0	442	9	6	46	33	15	442
D. a few times a month	0										24	2	53	30	15	441	14	5	50	31	14	443
Which statement best describes how you learn science?																						
A. I mostly read a textbook and answer questions, and/or take notes and do assignments. I use science kits for demonstrations and experiments.	19	0	0	5	63	3	38	0	0	446	24	0	53	34	13	441	25	5	48	34	13	443
B. I work in groups to design and conduct experiments.	44	1	5	9	47	9	47	0	0	443	34	1	43	45	11	440	27	4	46	37	13	442
C. I do a combination of A and B, but mostly A.	19	1	13	6	75	1	13	0	0	453	24	4	55	35	6	444	26	7	56	28	8	445
D. I do a combination of A and B, but mostly B.	19	1	13	3	38	2	25	2	25	444	18	8	62	21	10	446	22	9	55	26	9	446
Optional school/SAU question																						
A.	100	0	0	0	0	1	100	0	0	438	33	33	0	67	0	447						
B.	0										11	0	0	0	100	426						
C.	0										44	0	50	25	25	438						
D.	0										11	0	100	0	0	448						